

VELOCITY AND FRICTION LOSS CHARACTERISTICS

PVC CLASS 200 PIPE

C = 150 (1120, 1220) SDR 21
 gpi loss per 100 feet of pipe
 sizes 3/4" to 6" with flow from 1 to 600 GPM

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
ISO	1.050	1.315	1.660	1.900	2.375	2.675	3.500	4.500	5.625
OD	0.930	1.310	1.500	1.700	2.140	2.601	3.146	4.002	5.000
Wall Th.	0.090	0.093	0.079	0.090	0.113	0.137	0.167	0.216	0.216

Flow GPM	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss	Velocity fpm	gpi Loss
1	0.47	0.06	0.79	0.02	0.18	0.01	0.54	0.00	0.89	0.00								
2	0.94	0.22	0.58	0.07	0.36	0.02	0.58	0.00	0.57	0.00	0.72	0.00						
3	1.42	0.46	0.80	0.14	0.54	0.04	0.45	0.02	0.27	0.01	0.58	0.00						
4	1.89	0.79	1.15	0.24	0.72	0.08	0.55	0.04	0.35	0.01	0.54	0.01						
5	2.36	1.19	1.44	0.38	0.90	0.12	0.68	0.06	0.44	0.02	0.50	0.01						
6	2.83	1.63	1.73	0.51	1.09	0.16	0.83	0.09	0.53	0.03	0.36	0.01	0.24	0.00				
7	3.30	2.13	2.02	0.67	1.27	0.22	0.97	0.11	0.62	0.04	0.42	0.01	0.29	0.01				
8	3.77	2.69	2.31	0.86	1.45	0.29	1.10	0.14	0.71	0.05	0.48	0.02	0.33	0.01				
9	4.25	3.35	2.60	1.07	1.63	0.34	1.24	0.18	0.80	0.06	0.54	0.02	0.37	0.01				
10	4.72	4.11	2.89	1.30	1.81	0.42	1.38	0.22	0.88	0.07	0.60	0.03	0.41	0.01				
11	5.19	5.04	3.17	1.56	1.99	0.50	1.52	0.29	0.97	0.08	0.66	0.03	0.45	0.01	0.27	0.00		
12	5.66	6.04	3.46	1.83	2.17	0.59	1.65	0.30	1.06	0.10	0.72	0.04	0.49	0.02	0.30	0.00		
14	6.60	8.04	4.04	2.43	2.53	0.78	1.93	0.40	1.24	0.14	0.88	0.05	0.57	0.02	0.34	0.01		
16	7.55	10.29	4.62	3.11	2.89	1.00	2.21	0.52	1.47	0.17	0.96	0.07	0.65	0.03	0.39	0.01		
18	8.49	12.80	5.19	3.87	3.26	1.24	2.48	0.64	1.59	0.22	1.09	0.09	0.73	0.03	0.44	0.02		
20	9.43	15.54	5.77	4.71	3.62	1.51	2.76	0.78	1.73	0.29	1.21	0.10	0.81	0.04	0.49	0.01	0.23	0.00
22	10.38	18.54	6.35	5.62	3.99	1.80	3.03	0.93	1.94	0.32	1.33	0.12	0.90	0.05	0.54	0.01	0.25	0.00
24	11.32	21.87	6.93	6.60	4.34	2.12	3.31	1.09	2.13	0.45	1.45	0.15	0.98	0.06	0.59	0.02	0.27	0.00
26	12.27	25.29	7.50	7.65	4.70	2.43	3.59	1.27	2.30	0.43	1.57	0.17	1.08	0.07	0.64	0.02	0.30	0.00
28	13.21	29.01	8.08	8.78	5.06	2.82	3.86	1.46	2.47	0.49	1.69	0.19	1.14	0.07	0.69	0.02	0.32	0.00
30	14.15	32.96	8.66	9.97	5.43	3.20	4.14	1.65	2.65	0.56	1.81	0.22	1.22	0.08	0.74	0.02	0.34	0.00
35	16.15	43.89	10.19	13.27	6.33	4.29	4.83	2.20	3.09	0.74	2.11	0.29	1.42	0.11	0.88	0.03	0.40	0.01
40	18.17	56.16	11.54	16.99	7.23	5.45	5.52	2.82	3.53	0.95	2.41	0.38	1.63	0.14	0.99	0.04	0.45	0.01
45			12.99	21.13	8.14	6.78	6.21	3.51	3.98	1.19	2.71	0.47	1.83	0.18	1.11	0.05	0.51	0.01
50			14.43	25.69	9.04	8.24	6.90	4.29	4.42	1.44	3.02	0.57	2.04	0.22	1.23	0.06	0.57	0.01
55			15.87	30.64	9.95	9.83	7.59	5.08	4.86	1.72	3.32	0.68	2.24	0.25	1.35	0.08	0.62	0.01
60			17.32	36.00	10.88	11.55	8.27	5.87	5.30	2.02	3.62	0.80	2.44	0.31	1.48	0.09	0.68	0.01
65			18.76	41.76	11.78	13.39	8.96	6.80	5.74	2.34	3.92	0.93	2.65	0.36	1.60	0.10	0.74	0.02
70			20.20	47.96	12.68	15.36	9.65	7.86	6.58	2.69	4.23	1.06	2.85	0.41	1.72	0.12	0.80	0.02
75			21.64	54.56	13.56	17.46	10.34	9.00	6.83	3.00	4.53	1.21	3.05	0.46	1.85	0.14	0.85	0.02
80			23.07	61.67	14.43	19.67	11.00	10.12	7.67	3.44	4.82	1.36	3.26	0.52	1.97	0.15	0.91	0.02
85			24.51	69.21	15.32	22.01	11.72	11.38	8.51	3.85	5.13	1.52	3.46	0.58	2.09	0.17	0.97	0.03
90			25.95	77.17	16.20	24.61	12.47	12.65	9.36	4.29	5.43	1.69	3.66	0.65	2.21	0.19	1.02	0.03
95			27.38	85.56	17.10	27.39	13.16	13.99	10.26	4.73	5.73	1.87	3.87	0.72	2.34	0.21	1.08	0.03
100			28.74	94.39	18.00	30.74	13.79	15.38	11.13	5.20	6.00	2.06	4.07	0.79	2.46	0.23	1.14	0.04
110			31.69	114.68	19.17	35.35	14.72	18.25	12.21	6.03	6.63	2.45	4.49	0.94	2.73	0.28	1.25	0.04
120			34.66	136.56	20.60	40.60	15.60	21.50	13.24	6.88	7.24	2.86	4.88	1.11	2.99	0.33	1.36	0.05
130			37.63	159.90	21.68	46.40	16.48	25.00	14.18	7.64	7.84	3.24	5.29	1.28	3.20	0.38	1.48	0.06
140			40.60	184.70	22.75	52.71	17.35	28.60	15.10	8.44	8.44	3.63	5.70	1.47	3.44	0.43	1.59	0.07
150			43.57	210.96	23.82	59.55	18.22	32.30	16.00	9.29	9.00	4.04	6.11	1.67	3.69	0.49	1.70	0.08
160			46.54	238.68	24.89	66.93	19.14	36.13	16.95	10.11	9.61	4.45	6.51	1.89	3.94	0.55	1.82	0.09
170			49.51	267.86	25.96	74.86	20.06	40.00	17.84	11.09	10.19	4.86	6.83	2.11	4.18	0.62	1.93	0.09
180			52.48	298.49	27.03	83.33	21.00	43.90	18.79	12.09	10.69	5.27	7.15	2.33	4.43	0.69	2.04	0.11
190			55.45	330.66	28.09	92.33	21.94	47.80	19.79	13.06	11.16	5.69	7.53	2.59	4.68	0.76	2.14	0.12
200			58.42	364.37	29.16	101.86	22.89	51.70	20.79	14.02	12.14	6.09	7.94	2.85	4.92	0.84	2.24	0.13
220			64.38	451.16	31.21	117.12	24.91	60.00	22.82	15.87	13.87	6.83	8.74	3.35	5.54	1.04	2.56	0.16
240			70.34	541.91	33.26	133.89	26.93	68.80	24.84	17.72	15.69	7.57	9.56	4.15	6.15	1.27	2.84	0.19
260			76.30	636.62	35.31	152.16	28.95	78.00	26.86	19.58	17.50	8.31	10.38	4.95	6.77	1.47	3.12	0.23
280			82.26	735.29	37.36	171.93	30.97	87.60	28.87	21.43	19.27	9.04	11.21	5.76	7.38	1.68	3.41	0.27
300			88.22	837.92	39.41	193.20	32.99	97.60	30.88	23.28	21.04	9.81	12.04	6.56	8.00	2.06	3.69	0.31
320			94.18	944.51	41.46	215.97	35.01	108.00	32.89	25.13	22.82	10.58	12.87	7.36	8.61	2.50	3.98	0.36
340			100.14	1056.06	43.51	240.24	37.03	118.80	34.90	27.00	24.59	11.35	13.70	8.16	9.23	2.94	4.26	0.41
360			106.10	1172.57	45.56	266.01	39.05	130.00	36.91	28.87	26.36	12.12	14.53	8.96	9.84	3.39	4.54	0.46
380			112.06	1294.04	47.61	293.28	41.07	141.60	38.92	30.74	28.13	12.89	15.36	9.76	10.46	3.83	4.83	0.52
400			118.02	1420.47	49.66	322.05	43.09	153.60	40.93	32.61	29.90	13.66	16.19	10.57	11.07	4.28	5.11	0.57
420			124.00	1551.86	51.71	352.42	45.11	166.00	42.94	34.48	31.67	14.43	17.02	11.38	11.69	4.73	5.40	0.63
440			130.00	1688.21	53.76	384.39	47.13	178.80	44.95	36.35	33.44	15.20	17.85	12.20	12.30	5.18	5.69	0.70
460			136.00	1829.52	55.81	417.96	49.15	192.00	46.96	38.22	35.21	15.97	18.68	13.01	12.91	5.63	5.98	0.77
480			142.00	1975.79	57.86	453.23	51.17	205.60	48.97	40.09	37.00	16.74	19.51	13.82	13.52	6.08	6.27	0.84
500			148.00	2127.02	59.91	490.20	53.19	220.60	50.98	41.96	38.79	17.51	20.34	14.63	14.13	6.53	6.56	0.91
520			154.00	2283.21	61.96	528.87	55.21	236.00	52.99	43.83	40.58	18.28	21.17	15.44	14.74	6.98	6.85	0.98
540			160.00	2444.46	63.99	569.24	57.23	251.80	54.99	45.70	42.37	19.05	22.00	16.25	15.35	7.43	7.14	1.05
560			166.00	2610.67	66.02	611.41	59.25	268.00	56.99	47.57	44.16	19.82	22.83	17.06	15.96	7.88	7.43	1.12
580			172.00	2781.84	68.05	655.58	61.27	284.60	58.99	49.44	45.95	20.59	23.66	17.87	16.57	8.33	7.72	1.19
600			178.00	2958.00	70.08	701.75	63.29	301.60	60.99	51.31	47.74	21.36	24.49	18.68	17.18	8.78	8.01	1.26

Caution should be taken if using outlined areas which have velocities in excess of 5' per second.

Industrial Piping Sizing Manual

T. W. Love



Industrial Piping Sizing Manual:

Industrial Piping and Equipment Estimating Manual Kenneth Storm, 2017-06-23 Industrial Piping and Equipment Estimation Manual delivers an invaluable resource for day to day operations Packed full of worksheets covering combined and simple cycle power plants refineries compressor stations ethanol hydrogen and biomass plants this reference helps the construction engineer and estimator learn how to create bids where scope and quantity differences can be identified and project impacts estimated Beginning with an introduction devoted to labor productivity measurement estimating methods and factors affecting construction labor productivity and impacts of overtime the author then explores equipment through hands on estimation tables including sample estimates and statistical applications The book rounds out with a glossary abbreviations list formulas and metric standard conversions and is an ideal reference for estimators engineers and managers with the level of detail and equipment breakdown necessary for today's industrial operations Includes day to day worksheets to help users estimate equipment and piping for any plant or refinery project Presents the comparison method to estimate similarities and differences between proposed and previously installed equipment Helps users understand and produce more accurate direct costs with sample estimates

Handbook of Valves and Actuators Brian Nesbitt, 2011-04-19 Industries that use pumps seals and pipes will also use valves and actuators in their systems This key reference provides anyone who designs uses specifies or maintains valves and valve systems with all of the critical design specification performance and operational information they need for the job in hand Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail in this volume Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers specifiers or those involved with maintenance require Practical approach backed up with technical detail and engineering know how makes this the ideal single volume reference Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained

Valves, Piping, and Pipelines Handbook T. Christopher Dickenson, 1999 Hardbound Over recent years a number of significant developments in the application of valves have taken place the increasing use of actuator devices the introduction of more valve designs capable of reliable operation in difficult fluid handling situations low noise technology and most importantly the increasing attention being paid to product safety and reliability Digital technology is making an impact on this market with manufacturers developing intelligent smart control valves incorporating control functions and interfaces New metallic materials and coatings available make it possible to improve application ranges and reliability New and improved polymers plastic composite materials and ceramics are all playing their part Fibre reinforced plastic pipe systems glass reinforced epoxy pipe systems and the traditional low cost polyester pipe systems have all undergone sophisticated design and manufacturing technology changes The pot

Industrial Gas Handbook Frank G. Kerry, 2007-02-22 Drawing on Frank G Kerry's more than 60 years of experience as

a practicing engineer the Industrial Gas Handbook Gas Separation and Purification provides from the trenches advice that helps practicing engineers master and advance in the field It offers detailed discussions and up to date approaches to process cycles for cryogenic separation of

Practical Guidelines for the Chemical Industry Kiran R. Golwalkar,Rashmi Kumar,2022-04-27 This book provides practical guidelines to chemical engineers plant managers maintenance engineers and senior managements in modern chemical processing facilities It provides guidelines to the readers for operational competencies such as hazard identification HAZID hazard operability studies HAZOP avoiding mistakes in plant facilities to ensure safety compliance with various statutory rules and regulations and management of human resources through improved working conditions provision of safety equipment etc It further presents technical information on pressure vessels design of piping and selection of pumping systems materials for construction and lining of process units operating at high temperature and corrosive conditions and criteria for selection of different methods for heating of process units In addition to its application to existing operations the book includes information on expansion diversification and modernization of facilities and guidelines for revival of old and idle plants Finally the authors discuss various safety issues controlling cost of production and sustainability topics such as planning and implementing co generation of steam and power environmental pollution control for chemical plants and safe disposal of hazardous wastes

Pipeline Design for Water Engineers D.J. Stephenson,1989-06-01 the book is at its best in the design and analysis sections and could stand on these alone as a well stocked handbook with copious references for further study commented the Journal of the National Water Council after publication of an earlier edition of Pipeline Design for Water Engineers This classic monograph has been revised and updated to take account of new developments in the field Recent research in cavitation and flow control has prompted additional sections to be added There are also new sections on supports to exposed pipes and secondary stress Additional references and a new layout make up this edition Some sections appearing in previous editions notably on pipe network systems analysis and optimization have been omitted as they were considered more appropriate in the author s parallel book Pipeflow Analysis Developments in Water Science 19

Technical Manual United States. War Department,1972 [EPA-430/1](#) ,1979-05 **Pipeline Rules of Thumb**

Handbook E.W. McAllister,2013-09-27 Presented in easy to use step by step order Pipeline Rules of Thumb Handbook is a quick reference for day to day pipeline operations For more than 35 years the Pipeline Rules of Thumb Handbook has served as the go to reference for solving even the most day to day vexing pipeline workflow problems Now in its eighth edition this handbook continues to set the standard by which all other piping books are judged Along with over 30% new or updated material regarding codes construction processes and equipment this book continues to offer hundreds of how to methods and handy formulas for pipeline construction design and engineering and features a multitude of calculations to assist in problem solving directly applying the rules and equations for specific design and operating conditions to illustrate correct application

all in one convenient reference For the first time in this new edition we are taking the content and data off the page and adding a new dimension of practical value for you with online interactive features to accompany some of the handiest and most useful material from the book Interactive tables that takes data from the book and turns them into a sortable spreadsheet format that gives you the ability to perform your own basic filtering functions show hide columns of just the data that is important to you and download the table into an Excel spreadsheet for additional use A graph digitizer which pulls a graph from the book and gives you the power to plot your own lines on the existing graph see all the relative x y coordinates of the graph and name and color code your lines for clarity A converter calculator performing basic conversions from the book such as metric conversions time temperature length power and more Please feel free to visit the site <http://booksite.elsevier.com/9780123876935/index.php> and we hope you will find our features as another useful and efficient tool for you in your day to day activity Identify the very latest pipeline management tools and technologies required to extend the life of mature assets Understand the obstacles and solutions associated with pipeline operations in challenging conditions Analyze the key issues relating to flow assurance methodologies and how they can impact pipeline integrity Evaluate effective ways to manage cost and project down time

Double Walled Piping: A Handbook for the Petroleum and Petrochemical Industry Christopher G. Ziu, 2019-03-08 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Comprehensive coverage of double walled piping system design installation and operation This definitive text provides expert guidance on the design layout installation and maintenance of double walled piping systems Double Walled Piping A Handbook for the Petroleum and Petrochemical Industry takes you through the construction of both under and above ground systems and features complete details on system selection and installation leak detection tanks and testing Advanced chapters cover design methods and multinational approaches to determining size and performance criteria You will also get an up to date overview of global practices methods laws and requirements Coverage includes Materials of construction System selection Fluid dynamics and sizing analysis Design of metallic and nonmetallic primary components Design of secondary containment components Thermal expansion considerations Structural considerations Heat transfer in double containment piping Layout concepts for double containment piping Fabrication installation inspection examination and testing Associated storage tanks and pressure vessels Leak detection Trenchless installation and alternatives to secondary containment piping

Pipeline Rules of Thumb Handbook M.J. Kaiser, E.W. McAllister, 2022-09-02 Pipeline Rules of Thumb Handbook A Manual of Quick Accurate Solutions to Everyday Pipeline Engineering Problems Ninth Edition the latest release in the series serves as the go to source for all pipeline engineering answers Updated with new data graphs and chapters devoted to economics and the environment this new edition delivers on new topics including emissions decommissioning cost curves and more while still maintaining the quick answer standard display of content and data that engineers have utilized throughout their careers Glossaries are added

per chapter for better learning tactics along with additional storage tank and LNG fundamentals This book continues to be the high quality classic reference to help pipeline engineers solve their day to day problems Contains new chapters that highlight costs safety and environmental topics including discussions on emissions Helps readers learn terminology with updated glossaries in every chapter Includes renovated graphs and data tables throughout **Marking, Assembly and Miscellaneous Industry Machinery** United States. Defense Logistics Agency,1983 *Light* ,1919 **Thermal insulations in the petrochemical industry** ,1975 **Technological Change and Its Labor Impact in Four Industries** ,1988 **Western Oil and Refining** ,1917 *Metal, Construction Industry Series, Student Manual, Preparation Level* United States. Office of Education,1975 Riegel's Handbook of Industrial Chemistry James A. Kent,2012-12-06 The aim of this book is to present in a single volume an up to date account of the chemistry and chemical engineering which underlie the major areas of the chemical process industry This most recent edition includes several new chapters which comprise important threads in the industry s total fabric These new chapters cover waste minimization safety considerations in chemical plant design and operation emergency response planning and statistical applications in quality control and experimental planning Together with the chapters on chemical industry economics and wastewater treatment they provide a unifying base on which the reader can most effectively apply the information provided in the chapters which describe the various areas of the chemical process industries The ninth edition of this established reference work contains the contributions of some fifty experts from industry government and academe I have been humbled by the breadth and depth of their knowledge and expertise and by the willingness and enthusiasm with which they shared their knowledge and insights They have without exception been unstinting in their efforts to make their respective chapters as complete and informative as possible within the space available Errors of omission duplication and shortcomings in organization are mine Grateful acknowledgment is made to the editors of technical journals and publishing houses for permission to reproduce illustrations and other materials and to the many industrial concerns which contributed drawings and photographs Comments and criticisms by readers will be welcome *Construction Manual: Concrete & Formwork* T. W. Love,1973 Concrete as a building material Concrete mix compounds Proportioning concrete mix Excavation Laying out the building Design of concrete forms Form materials and how to use them Construction of pier and footing forms Construction of foundation wall forms Formwork for openings in concrete walls Formwork for steps Formwork for floors and sidewalk slabs How to make beam and girder forms Forms for arched openings Handling and placing concrete Finishing concrete Curing and patching concrete Effects of temperature Reinforced concrete construction Precast concrete Cleaning concrete and masonry methods Appendix A Method of making slump test for consistency of Portland cement concrete Appendix B Estimating quantities and labor hours for concrete forms and reinforcing

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